

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re U.S. Patent Application of

NAKAO *et al.*

Application Number: 10/020,721

Filed: December 14, 2001

For: DETECTION METHOD AND DETECTION KIT  
FOR PCR-AMPLIFIED BASE SEQUENCES

Attorney Docket No. HIRA.0054

Art Unit 1637

Examiner  
Chunduru, Suryaprabha

Honorable Assistant Commissioner  
for Patents  
Washington, D.C. 20231

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**COVER LETTER**

Sir:

[ ] The fee for submission of additional claims is calculated as shown below:

FOR	TOTAL WITH NEW CLAIMS ADDED	TOTAL CURRENTLY ON FILE	CLAIMS PAID	RATE	CALCULATION
Total Claims	4	6	-XX (Over 20)	x \$18	0
Independent Claims	2	2	-XX (Over 3)	x \$84	0
MULTIPLE DEPENDENT CLAIM(S)				+ \$280	0
REDUCTION FOR FILING BY SMALL ENTITY (note 37 C.F.R. §§ 1.9, 1.27, 1.28). IF APPLICABLE, VERIFIED STATEMENT MUST BE ATTACHED				x ½	
			TOTAL		0.00

In addition, the below-identified communications are submitted in the above-captioned application or proceeding:

[ x ] Response to Office Action  
(with Claim Amendments)

[ ] Substitute Specification

[ ] Preliminary Amendment

[ ] Other \_\_\_\_\_

[ ] Petition for Extension of Time

[ ] Terminal Disclaimer

[ ] Letter to Draftsperson

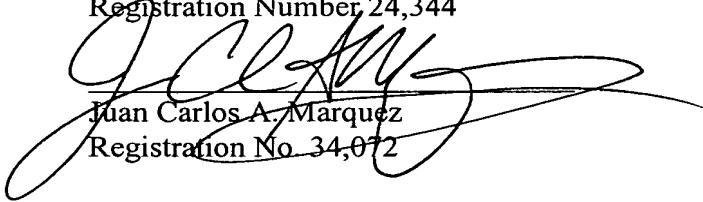
[ ] Assignment

[ ] Petition under \_\_\_\_\_

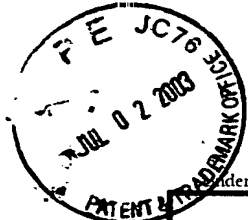
- [ ] Please charge my **Deposit Account Number** \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the fees for \_\_\_\_\_. A duplicate copy of this paper is enclosed.
- [ ] A check in the amount of \$0.00 to cover the fee is enclosed.
- [x] The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 C.F.R. § 1.16 and 1.17, or credit any overpayment to **Deposit Account Number 08-1480**.

Respectfully submitted,

\_\_\_\_\_  
Stanley P. Fisher  
Registration Number 24,344

  
Juan Carlos A. Marquez  
Registration No. 34,072

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**July 2, 2003**



#1 RCE/1637

PTO/SB/10 (10-01)  
Approved for use through 10/31/2002. OMB 0662-0001  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

Address to:  
Commission for Patents  
Box RCE  
Washington, DC 20231

Application Number	10/020,721
Filing Date	December 14, 2001
First Named Inventor	Nakao
Art Unit	1637
Examiner Name	S. Chunduru
Attorney Docket Number	HIRA.0054

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plan application filed prior to June 8, 1995, or to any design application. See instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

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## 1. Submission required under 37 CFR 1.114

- a. ☐ Previously submitted
  - i. ☐ Consider the amendment(s)/reply under 37 CFR 1.114 previously filed on \_\_\_\_\_
  - ii. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on \_\_\_\_\_
  - iii. ☐ Other \_\_\_\_\_
- b. ☒ Enclosed
  - i. ☒ Amendment/Reply
  - ii. ☐ Affidavit(s)/Declaration(s)
  - iii. ☐ Information Disclosure Statement (IDS)
  - iv. ☐ Other:

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## 2. Miscellaneous

- a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of \_\_\_\_\_ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
- b. ☐ Other

## 3. Fees

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

- a. ☒ The Director is hereby authorized to charge the following fees, or credit any overpayments to Deposit Account No. 08-1480
  - i. ☒ RCE fee required under 37 CFR 1.17(e)
  - ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)
  - iii. ☐ Other \_\_\_\_\_
- b. ☒ A check in the amount of 750.00 is enclosed.
- c. ☐ Payment by credit card (Form PTO-2038 enclosed)

Warning: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (Print/Type)	Juan Carlos A. Marquez	Registration NO. (attorney/agent)	34,072
Name (Print/Type)	Stanley P. Fisher	Registration NO. (attorney/agent)	24,344
Signature		Date	July 2, 2003

## CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Box RCE, Washington, DC 20231, or facsimile transmitted to the United States and Trademark Office on the date shown below.

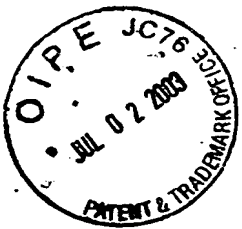
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Signature	Date

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND Fees and Completed Forms to the following address: Assistant Commissioner for Patents, Box RCE, Washington, DC 20231.

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In re U.S. Patent Application of )  
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Honorable Assistant Commissioner  
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Washington, D.C. 20231

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**RESPONSE AND AMENDMENT UNDER 37 C.F.R. §1.111**

Sir:

This is in response to the office action dated April 8, 2003, and the telephone interview with Examiner on June 12, 2003, in the above identified application, to which the period for response will expire on July 8, 2003. Please amend the above identified application with the replacement paragraphs/sections/claims as follows:

**IN THE CLAIMS:** ✓

Please cancel claims 1 and 3 without prejudice or disclaimer, and substitute claim 2 with the following amended claims:

- 
2. A method of detecting PCR-amplified base sequences, comprising the steps of:
- conducting PCR amplification by mixing a plurality of primer pairs with a sample, said primer pairs being suitable for amplifying different base sequences of a same length or different lengths by PCR;
  - conducting a hybridization reaction by using a substrate on which one primer of each of said primer pairs used for the PCR are fixedly spotted on spots thereon and a solution containing said base sequences that are PCR-amplified in the preceding step,

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